



```
SSSSSSSS TTTT TTTT HH HH LL
SSSSSSSS TTTT TTTT HH HH LL
SS      TT      HH HH LL
SS      TT      HH HH LL
SS      TT      HH HH LL
SSSSSS TT      HHHHHHHHHH LL
SSSSSS TT      HHHHHHHHHH LL
      SS TT      HH HH LL
      SS TT      HH HH LL
      SS TT      HH HH LL
SSSSSSSS TT      HH HH LLLLLLLLLL
SSSSSSSS TT      HH HH LLLLLLLLLL
      ....
      ....
      ....
      ....
```

```
LL      IIIIII SSSSSSSS
LL      IIIIII SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS
```



```
1 0001 0 %TITLE 'Process .STYLE HEADERS command'
2 0002 0 MODULE STHL (
3 0003 0 IDENT = 'V04-000'
4 P 0004 0 %BLISS32[
5 P 0005 0 ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)
6 0006 0 ]
7 0007 0 ) =
8 0008 1 BEGIN
9 0009 1
10 0010 1
11 0011 1 *****
12 0012 1 *
13 0013 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
14 0014 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
15 0015 1 * ALL RIGHTS RESERVED.
16 0016 1 *
17 0017 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
18 0018 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
19 0019 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
20 0020 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
21 0021 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
22 0022 1 * TRANSFERRED.
23 0023 1 *
24 0024 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
25 0025 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
26 0026 1 * CORPORATION.
27 0027 1 *
28 0028 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
29 0029 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
30 0030 1 *
31 0031 1 *
32 0032 1 *****
33 0033 1
34 0034 1 ++
35 0035 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
36 0036 1
37 0037 1 ABSTRACT: Processes the .STYLE HEADERS command
38 0038 1
39 0039 1
40 0040 1 ENVIRONMENT: Transportable
41 0041 1
42 0042 1 AUTHOR: R.W.Friday CREATION DATE: April, 1979
43 0043 1
```



STHL  
V04-000

Process .STYLE HEADERS command  
Revision History

B 9  
16-Sep-1984 01:49:44  
14-Sep-1984 13:08:13

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[RUNOFF.SRC]STHL.BLI;1 Page 2 (2)

:	45	0044	1	%SBTTL 'Revision History'	
:	46	0045	1		
:	47	0046	1	MODIFIED BY:	
:	48	0047	1		
:	49	0048	1	004	REM00004 Ray Marshall 07-Mar-1983
:	50	0049	1		Global edit of all modules. Updated module names, idents,
:	51	0050	1		copyright dates. Changed require files to BLISS library.
:	52	0051	1		
:	53	0052	1	--	



STHL  
V04-000

Process .STYLE HEADERS command  
Module Level Declarations

C 9  
16-Sep-1984 01:49:44  
14-Sep-1984 13:08:13

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[RUNOFF.SRC]STHL.BLI;1  
Page 3  
(3)

```

: 55      0053 1 %SBTTL 'Module Level Declarations'
: 56      0054 1
: 57      0055 1 : TABLE OF CONTENTS:
: 58      0056 1 :
: 59      0057 1 :
: 60      0058 1 :
: 61      0059 1 : INCLUDE FILES:
: 62      0060 1 :
: 63      0061 1 :
: 64      0062 1 LIBRARY 'NXPORT:XPORT';      ! XPORT Library
: 65      0063 1 REQUIRE 'REQ:RNODEF';      ! RUNOFF variant definitions
: 66      0194 1
: 67      U 0195 1 %IF DSRPLUS %THEN
: 68      U 0196 1 LIBRARY 'REQ:DPLLIB';      ! DSRPLUS BLISS Library
: 69      0197 1 %ELSE
: 70      0198 1 LIBRARY 'REQ:DSRLIB';      ! DSR BLISS Library
: 71      0199 1 %FI
: 72      0200 1
: 73      0201 1 :
: 74      0202 1 : MACROS:
: 75      0203 1 :
: 76      0204 1 :
: 77      0205 1 :
: 78      0206 1 : EQUATED SYMBOLS:
: 79      0207 1 :
: 80      0208 1 :
: 81      0209 1 :
: 82      0210 1 : OWN STORAGE:
: 83      0211 1 :
: 84      0212 1 :
: 85      0213 1 :
: 86      0214 1 : EXTERNAL REFERENCES:
: 87      0215 1 EXTERNAL
: 88      0216 1     HLC : HLC DEFINITION,
: 89      0217 1     NMLST : NUMBER_LIST;
: 90      0218 1 :
: 91      0219 1 :
: 92      0220 1 EXTERNAL ROUTINE
: 93      0221 1     GLNM;

```

```

95 0222 1 %SBTTL 'STHL --'
96 0223 1 GLOBAL ROUTINE sthl (handler_code) :NOVALUE =
97 0224 1
98 0225 1 !++
99 0226 1 FUNCTIONAL DESCRIPTION:
100 0227 1
101 0228 1 STHL processes the .STYLE HEADERS command, which specifies
102 0229 1 how text given on a .HEADER LEVEL command is to be processed.
103 0230 1
104 0231 1 FORMAL PARAMETERS:
105 0232 1
106 0233 1 HANDLER_CODE is a dummy, used just for conformance.
107 0234 1
108 0235 1 IMPLICIT INPUTS:
109 0236 1
110 0237 1 There are 9 legal arguments that can be supplied to .STHL. They are gotten
111 0238 1 by GLNM(9) at the beginning of this routine. The 9 arguments control the
112 0239 1 following things:
113 0240 1
114 0241 1 n1: Heads at this level or higher (smaller n) are made all-cap. Default 1.
115 0242 1 n2: Heads at this level and lower (larger n) are cap-lower-case. Default 2.
116 0243 1 n3: Heads at this level and lower are run-in heads. Default 3. ??
117 0244 1 n4: Heads at this level and lower are not numbered. Default 7.
118 0245 1 n5: Heads at this level and lower, if not run-in, are centered. Default 7.
119 0246 1 n6: This many lines are skipped before heads. Default 2. ??
120 0247 1 n7: This many lines are skipped after heads. Default 1. ??
121 0248 1 n8: An implied test-page of this many lines is done before heads. Default 3. ??
122 0249 1 n9: This many spaces are inserted after header number, before title. Default 1.
123 0250 1
124 0251 1 IMPLICIT OUTPUTS: None
125 0252 1
126 0253 1 ROUTINE VALUE:
127 0254 1 COMPLETION CODES: None
128 0255 1
129 0256 1 SIDE EFFECTS: None
130 0257 1
131 0258 1 --
132 0259 1
133 0260 2 BEGIN
134 0261 2
135 0262 2 !Get parameters.
136 0263 2 glnm(9);
137 0264 2
138 0265 2 !If any parameter is in error don't do anything but return.
139 0266 2 INCR i FROM 1 TO .nmlst_count DO
140 0267 2 IF .nmlst_descr(.i) EQL nm_bad THEN
141 0268 2 RETURN;
142 0269 2
143 0270 2 !Process parameters
144 0271 2
145 0272 2 ! First parameter specifies lowest .HL command that generates
146 0273 2 a "runon" header --
147 0274 2 IF .nmlst_count GEQ 1 THEN ! First, be sure there was at least 1 parameter.
148 0275 2 BEGIN
149 0276 2 IF .nmlst_descr(1) NEQ nm_null ! Be sure this parameter was specified
150 0277 2 THEN
151 0278 2 hlc_runon = .nmlst_value(1);! Assign first value to "runon"
```



STHL  
V04-000

Process .STYLE HEADERS command  
STHL --

E 9  
16-Sep-1984 01:49:44  
14-Sep-1984 13:08:13

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[RUNOFF.SRC]STHL.BLI;1

Page 5  
(4)

```

152 0279 3
153 0280 3      IF .nmlst_count GEQ 2 THEN      ! If at least two parameters specified
154 0281 4      BEGIN
155 0282 4      IF .nmlst_descr(2) NEQ nm_null ! Be sure second parameter was
156 0283 4      THEN                          specified
157 0284 4          hlc_upper = .nmlst_value(2); ! Assign its value to "all upper case"
158 0285 4
159 0286 4      !Make sure there was a third parameter specified.
160 0287 4      IF .nmlst_count GEQ 3 THEN
161 0288 5      BEGIN
162 0289 5      IF .nmlst_descr(3) NEQ nm_null !Be sure third parameter was specified
163 0290 5      THEN
164 0291 5          hlc_cap = .nmlst_value(3); !Assign third value to "capitalize first character".
165 0292 5
166 0293 5      !Make sure there was a fourth parameter specified.
167 0294 5      IF .nmlst_count GEQ 4 THEN
168 0295 6      BEGIN
169 0296 6          !If the fourth parameter was not a dummy, get its value.
170 0297 6      IF .nmlst_descr(4) NEQ nm_null THEN
171 0298 6          hlc_no_number = .nmlst_value(4);
172 0299 6
173 0300 6      !Make sure there was a fifth parameter specified.
174 0301 6      IF .nmlst_count GEQ 5 THEN
175 0302 7      BEGIN
176 0303 7          !Process fifth parameter only if it was not null
177 0304 7      IF .nmlst_descr(5) NEQ nm_null THEN
178 0305 7          hlc_center = .nmlst_value(5);
179 0306 7
180 0307 7      !Make sure there was a sixth parameter specified.
181 0308 7      IF .nmlst_count GEQ 6 THEN
182 0309 8      BEGIN
183 0310 8          !Process sixth parameter only if it was not null.
184 0311 8      IF .nmlst_descr(6) NEQ nm_null THEN
185 0312 8          hlc_headlb = .nmlst_value(6);
186 0313 8
187 0314 8      !Make sure there was a seventh parameter specified.
188 0315 8      IF .nmlst_count GEQ 7 THEN
189 0316 9      BEGIN
190 0317 9          !Process the seventh parameter only if it wasn't null
191 0318 9      IF .nmlst_descr(7) NEQ nm_null THEN
192 0319 9          hlc_headlc = .nmlst_value(7);
193 0320 9
194 0321 9      !Make sure an eighth parameter was specified
195 0322 9      IF .nmlst_count GEQ 8 THEN
196 0323 10     BEGIN
197 0324 10         !Process the eighth parameter only if it wasn't null.
198 0325 10     IF .nmlst_descr(8) NEQ nm_null THEN
199 0326 10         hlc_headlt = .nmlst_value(8);
200 0327 10
201 0328 10     !Make sure a ninth parameter was specified
202 0329 10     IF .nmlst_count GEQ 9 THEN
203 0330 11     BEGIN
204 0331 11         !Process the ninth parameter only if it wasn't null.
205 0332 11     IF .nmlst_descr(9) NEQ nm_null THEN
206 0333 11         hlc_headsp = .nmlst_value(9);
207 0334 10     END;
208 0335 9     END;
```

★★F 1

ENTRY	STHL, Save R2,R3	: 0223
MOVAB	HLC+8, R3	: :
MOVAB	NMLST, R2	: :
PUSHL	#9	: 0263
CALLS	#1, GLNM	: :
MOVL	NMLST, R1	: 0266
CLRL	I	: :
BRB	2\$	: :
CMPL	NMLST+160[I], #4	: 0267
BNEQ	2\$	: :
RET		: :
AOBLEQ	R1, I, 1\$	: :
TSTL	R1	: 0274
BGTR	3\$	: :
RET		: :
TSTL	NMLST+164	: 0276
BEQL	4\$	: :
MOVL	NMLST+4, HLC+8	: 0278
CMPL	R1, #2	: 0280
BLSS	12\$	: :
TSTL	NMLST+168	: 0282
BEQL	5\$	: :
MOVL	NMLST+8, HLC	: 0284
CMPL	R1, #3	: 0287
BLSS	12\$	: :
TSTL	NMLST+172	: 0289
BEQL	6\$	: :
MOVL	NMLST+12, HLC+4	: 0291
CMPL	R1, #4	: 0294
BLSS	12\$	: :
TSTL	NMLST+176	: 0297
BEQL	7\$	: :
MOVL	NMLST+16, HLC+28	: 0298
CMPL	R1, #5	: 0301
BLSS	12\$	: :
TSTL	NMLST+180	: 0304
BEQL	8\$	: :
MOVL	NMLST+20, HLC+36	: 0305



STHL  
V04-000

Process .STYLE HEADERS command  
STHL --

6 9  
16-Sep-1984 01:49:44  
14-Sep-1984 13:08:13

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[RUNOFF.SRC]STHL.BLI;1 Page 7  
(4)

06	51	D1	0007C	8\$:	CMPL	R1, #6	0308
	3B	19	0007F		BLSS	12\$	
00B8	C2	D5	00081		TSTL	NMLST+184	0311
	05	13	00085		BEQL	9\$	
10 A3 18	A2	D0	00087		MOVL	NMLST+24, HLC+24	0312
07	51	D1	0008C	9\$:	CMPL	R1, #7	0315
	2B	19	0008F		BLSS	12\$	
00BC	C2	D5	00091		TSTL	NMLST+188	0318
	05	13	00095		BEQL	10\$	
08 A3 1C	A2	D0	00097		MOVL	NMLST+28, HLC+16	0319
08	51	D1	0009C	10\$:	CMPL	R1, #8	0322
	1B	19	0009F		BLSS	12\$	
00C0	C2	D5	000A1		TSTL	NMLST+192	0325
	05	13	000A5		BEQL	11\$	
0C A3 20	A2	D0	000A7		MOVL	NMLST+32, HLC+20	0326
09	51	D1	000AC	11\$:	CMPL	R1, #9	0329
	0B	19	000AF		BLSS	12\$	
00C4	C2	D5	000B1		TSTL	NMLST+196	0332
	05	13	000B5		BEQL	12\$	
18 A3 24	A2	D0	000B7		MOVL	NMLST+36, HLC+32	0333
	04		000BC	12\$:	RET		0345

; Routine Size: 189 bytes, Routine Base: \$CODE\$ + 0000

; 219 0346 1 END !End of module  
; 220 0347 0 ELUDOM

#### PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	189	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

#### Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	20	1	86	00:00.2

#### COMMAND QUALIFIERS

STHL  
V04-000

Process .STYLE HEADERS command  
STHL --

H 9  
16-Sep-1984 01:49:44  
14-Sep-1984 13:08:13

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[RUNOFF.SRC]STHL.BLI;1  
Page 8 (4)

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:STHL/OBJ=OBJ\$:STHL MSRC\$:STHL/UPDATE=(ENH\$:STHL)

; Size: 189 code + 0 data bytes  
; Run Time: 00:06.8  
; Elapsed Time: 00:20.8  
; Lines/CPU Min: 3075  
; Lexemes/CPU-Min: 25542  
; Memory Used: 70 pages  
; Compilation Complete



0349

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY